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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

November 6, 2006

JEFFREY A. COOK, RICHARD E SOLTIS, ALEX D. COLVIN and JESSY GRIZZLE

Serial No. : 10/705,436

Group Art Unit: 3748

Filed : November 10, 2003

Examiner: Tu Minh Nguyen

For : CONTROL APPROACH FOR USE WITH DUAL MODE OXYGEN  
SENSORCommissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

**RESPONSE TO FINAL OFFICE ACTION**

These remarks are responsive to the Final Office Action mailed September 6, 2006. With entry of this amendment, claims 1-18 are pending. Applicants thank the Examiner for the courtesy extended in an Interview on November 6, 2006, and accordingly have attached an Interview Summary.

Claims 1-4, 7-14, 17 and 18 are rejected under 35 U.S.C. 102 (b) as being anticipated by Hamburg et al. (U.S. Patent 5,282,360). Claims 5, 6, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamburg et al. as applied to claims 1 and 12, in view of Schumacher et al. (U.S. Patent 6,116,021). Claims 1, 2, 6, 9, 10, 12 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kakuyama et al. (U.S. Patent 6,637,194) in view of Hamburg et al.

Applicants respectfully submit that the claim limitation "said linear indication being substantially linear across an entire range of air-fuel ratios from at least 12:1 to 18:1", which Hamburg was stated to teach, in all rejections and applying to independent claims 1, 9 and 12,

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and therefore all claims by virtue of their dependency, was distinguished from Hamburg et al. In particular, Examiner Nguyen noted that Hamburg has linear regions from an air/fuel ratio of approximately 14-14.6 and 14.8-15.5, but that Hamburg does not exhibit the linear indication being linear across an entire range. Applicants respectfully agree with the Examiner that Hamburg does not teach this limitation in any of the rejections of the Office Action, and that therefore claims 1, 9, and 12, and all dependent claims, are not anticipated and are patentably distinguishable over all cited references.

Based on the foregoing comments, the above-identified application is believed to be in condition for allowance, and such allowance is courteously solicited. If any further amendment is necessary to advance prosecution and place this case in allowable condition, the Examiner is courteously requested to contact the undersigned by fax or telephone at the number listed below.

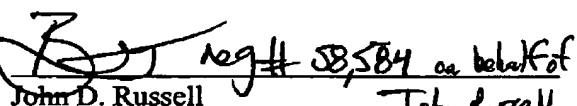
Please charge any cost incurred in the filing of this Response, along with any other costs, to Deposit Account 06-1510. If there are insufficient funds in this account, please charge the fees to Deposit Account No. 06-1505.

**CERTIFICATE OF FACSIMILE**

I hereby certify that this correspondence is being sent via facsimile to the U.S. Patent and Trademark Office at (571) 271-8300 on November 6, 2006.

  
Lauren Barberena

Respectfully submitted,  
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